

### **Abstract**

A liquid crystal display module includes a light source that generates light. A light guide panel has a first refractive index. Light from the light source propagates through the light guide panel. A low refractive index layer is disposed on the light guide panel and has a second refractive index which is lower than that of the light guide panel. A transmissive liquid crystal display panel is disposed on the upper part of the lower refractive layer.